

Appendix A

Statement of Work

Updating Wind Turbine Interactions with Birds and Bats: a Summary of Research Results and Remaining Questions

November 20, 2007

1.0 INTRODUCTION

The installed capacity of wind turbines across the U.S. landscape has increased over 100% in the last five years, from 6,740 MWs at the end of 2004 to 13,885 MWs as of 9/30/07.

Another 5,720 MWs are currently under construction. Development has or is occurring in $\frac{3}{4}$ of the states. As wind energy development increases, projects are expected to be built in new areas of the country. Total installed capacity may reach 20% of the U.S. energy mix by 2030. Questions about impacts from wind turbines on birds, bats, and other wildlife are frequently raised. Providing a concise Fact Sheet to address frequently asked questions regarding the potential impacts from wind turbines has served as a useful tool to providing easily understandable information on this topic.

2.0 BACKGROUND

In 2004, the Wildlife Workgroup of the National Wind Coordinating Collaborative (NWCC) published *Wind Turbine Interactions with Birds and Bats: A Summary of Research Results and Remaining Questions - Fact Sheet: Second Edition*, informally known as the “Birds & Bats Factsheet” (see http://www.nationalwind.org/publications/wildlife/wildlife_factsheet.pdf). The document summarized what was then known regarding bird and bat interaction with land-based wind energy, relevant recent research, priority research topics for ongoing study, and areas where scientific growth was expected.

Consistent with the consensus-based approach used by the NWCC Wildlife Workgroup (WL WG) that resulted in the completion of the first and second editions of the Fact Sheet, the National Renewable Energy Laboratory (NREL) will be looking for, among other things, a qualified individual or team that offers the best plan to meet the project objectives with input from all stakeholder groups represented on the NWCC WL WG.

3.0 PROJECT OBJECTIVES

The objective of this subcontract is for the Offeror to update the current Fact Sheet with expanded information about the impacts of wind power on birds, bats, and other wildlife, information on relevant recent research, and information on research that is still needed. The Fact Sheet should continue to pertain to land-based wind turbines.

4.0 SCOPE OF WORK AND TASKS

The following tasks shall be completed:

Task 1 - Conduct review of literature

The Subcontractor shall obtain and evaluate material for inclusion in the updated Fact Sheet. A reference list shall be provided to the review panel. Comments and suggestions for additional references will be returned to the Subcontractor within 15 days of receipt of the reference list.

Task 2 - Develop Draft Fact Sheet

The Subcontractor shall revise and update the current Fact Sheet, incorporating material gathered under Task 1. Comments from the review panel on the Draft Fact Sheet will be returned to the Subcontractor within 30 days of receipt of the Draft.

Task 3 - Revise Draft Fact Sheet

The Subcontractor shall revise the Draft Fact Sheet to incorporate the comments and suggestions received from the review panel, including additional suggested references. A revised Draft Fact Sheet shall be submitted within 30 days of receipt of comments from the review panel. Comments from the review panel on the Revised Draft Fact Sheet will be returned to the Subcontractor within 30 days of receipt of the Revised Draft.

Task 4 - Final Fact Sheet

The Subcontractor shall finalize the Fact Sheet based on comments received from the review panel on the Revised Draft Fact Sheet.

5.0 DOCUMENT REVIEW PROCESS

The NWCC WL WG will play a role by providing input to NREL on the critical review, comments, and recommendations for adoption of the final document. It should be noted that the NWCC WL WG operates on a consensus basis. This means that the Fact Sheet review process may be more thorough and time consuming than other subcontract activities.

The Subcontractor shall submit deliverables to NREL for review and comment by the NWCC WL WG and other selected reviewers. At least one, and potentially as many as three, additional reviews will likely be required to finalize the document in preparation for publication.

Subcontractors will not be responsible for final layout, design or printing of the document. These tasks will be taken care of by NREL.

6.0 DELIVERABLES

The Subcontractor shall provide the following deliverables; written documents shall be provided in electronic format.

Task	Deliverable/Milestone	Due Date
Task 1	Reference List	1 month after award
Task 2	Develop Draft Fact Sheet	2 months after award
Task 3	Revise Draft Fact Sheet	4 months after award
Task 4	Final Fact Sheet	6 months after award